

1 3. (Amended) An injection molding machine comprising:
2 a plasticating unit for plasticating a thermoplastic resin, and an injecting unit
3 connected to the plasticating unit through a connecting passage to inject the plasticated
4 resin into a mold,
5 said plasticating unit comprising a cylinder, a screw rotatable and movable
6 in the axial direction in the cylinder, means for rotation-driving the screw, a buffering
7 chamber defined by the top portion of the screw and the cylinder to reserve the plasticated
8 resin in an amount at least equal to the injection quantity of the resin per shot, and means
9 of energizing the screw forward in the axial direction to feed the resin in the buffering
10 chamber into the injecting unit;
11 a pressure sensor positioned to detect a resin pressure in said buffering
12 chamber, and resin-pressure controlling means for controlling said energizing means based
13 on the pressure detected by the pressure sensor so that the resin pressure in the buffering
14 chamber is kept substantially constant.

1 11. (Twice Amended) A thermoplastic resin injection molding machine as
2 claimed in claim 1, wherein the plasticating unit comprises means for continuous
3 plastication of the resin during all the period of the molding cycle.

1 26. (Amended) A thermoplastic resin injection molding machine as claimed in
2 claim 2, wherein the plasticating unit comprises means for continuous plastication of the
3 resin during all the period of the molding cycle.

1 27. (Amended) A thermoplastic resin injection molding machine as claimed in
2 claim 3, wherein the plasticating unit comprises means for continuous plastication of the
3 resin during all the period of the molding cycle.

1 28. (Amended) A thermoplastic resin injection molding machine as claimed in
2 claim 4, wherein the plasticating unit comprises means for continuous plastication of the
3 resin during all the period of the molding cycle.

B3 1 29. (Amended) A thermoplastic resin injection molding machine as claimed in
2 claim 5, wherein the plasticating unit comprises means for continuous plastication of the
3 resin during all the period of the molding cycle.

1 30. (Amended) A thermoplastic resin injection molding machine as claimed in
2 claim 6, wherein the plasticating unit comprises means for continuous plastication of the
3 resin during all the period of the molding cycle.

1 31. (Amended) A thermoplastic resin injection molding machine as claimed in
2 claim 7, wherein the plasticating unit comprises means for continuous plastication of the
3 resin during all the period of the molding cycle.

1 32. (Amended) A thermoplastic resin injection molding machine as claimed in
2 claim 8, wherein the plasticating unit comprises means for continuous plastication of the
3 resin during all the period of the molding cycle.

B3 1 33. (Amended) A thermoplastic resin injection molding machine as claimed in
2 claim 9, wherein the plasticating unit comprises means for continuous plastication of the
3 resin during all the period of the molding cycle.

1 34. (Amended) A thermoplastic resin injection molding machine as claimed in
2 claim 10, wherein the plasticating unit comprises means for continuous plastication of the
3 resin during all the period of the molding cycle.